

## AMENDMENTS TO THE SPECIFICATION

*Please insert the following header immediately prior to paragraph [0001]:*

### BACKGROUND

*Please insert the following header immediately prior to paragraph [0003]:*

### DETAILED DESCRIPTION

*Please amend paragraphs [0104] and [0105] as follows:*

#### Example 3

**A rationally-designed self-assembling peptide P11-4-P11-5 that forms solid-like gel network of interconnected positively charged fibrils in cell culture medium**

The rationally designed peptide P11-5 (Table 1) was dissolved in 145 mM NaCl, pH=7.5 aqueous solution (i.e. the ionic strength and pH values of the solution were similar to those present in cell culture medium) or it was added directly in cell culture medium. It was found that in both solutions, P11-5 self-assembled into twisted beta-sheet fibrils, which had typically narrow width of 4-5 nm, wide width of 12-15 nm, full pitch of 200-300 nm, and length of several micrometers.

**| The main difference between fibrils of P11-3 (example 1)(example 2) and of P11-5 (example 2) is that those formed by P11-3 have a net negative charge (-1 or -2) per peptide at pH=7.5, whilst those formed by P11-5 have net positive (+1 or +2) charge per peptide at pH=7.5.**

*Please amend the header immediately prior to paragraph [0125]as follows:*

**| Figure LegendsBRIEF DESCRIPTION OF THE DRAWINGS**